FIG. 1
(Prior Art)

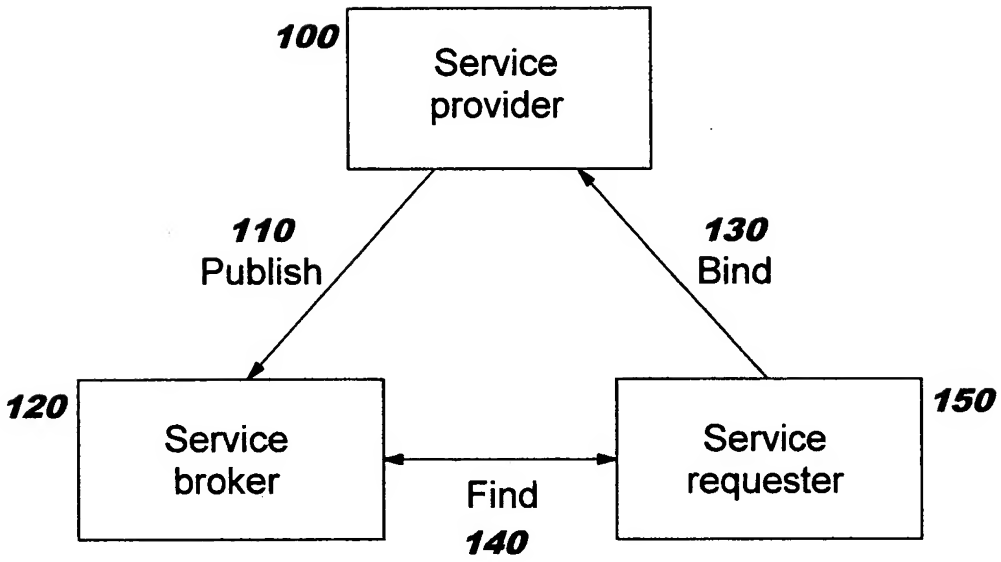

FIG. 2

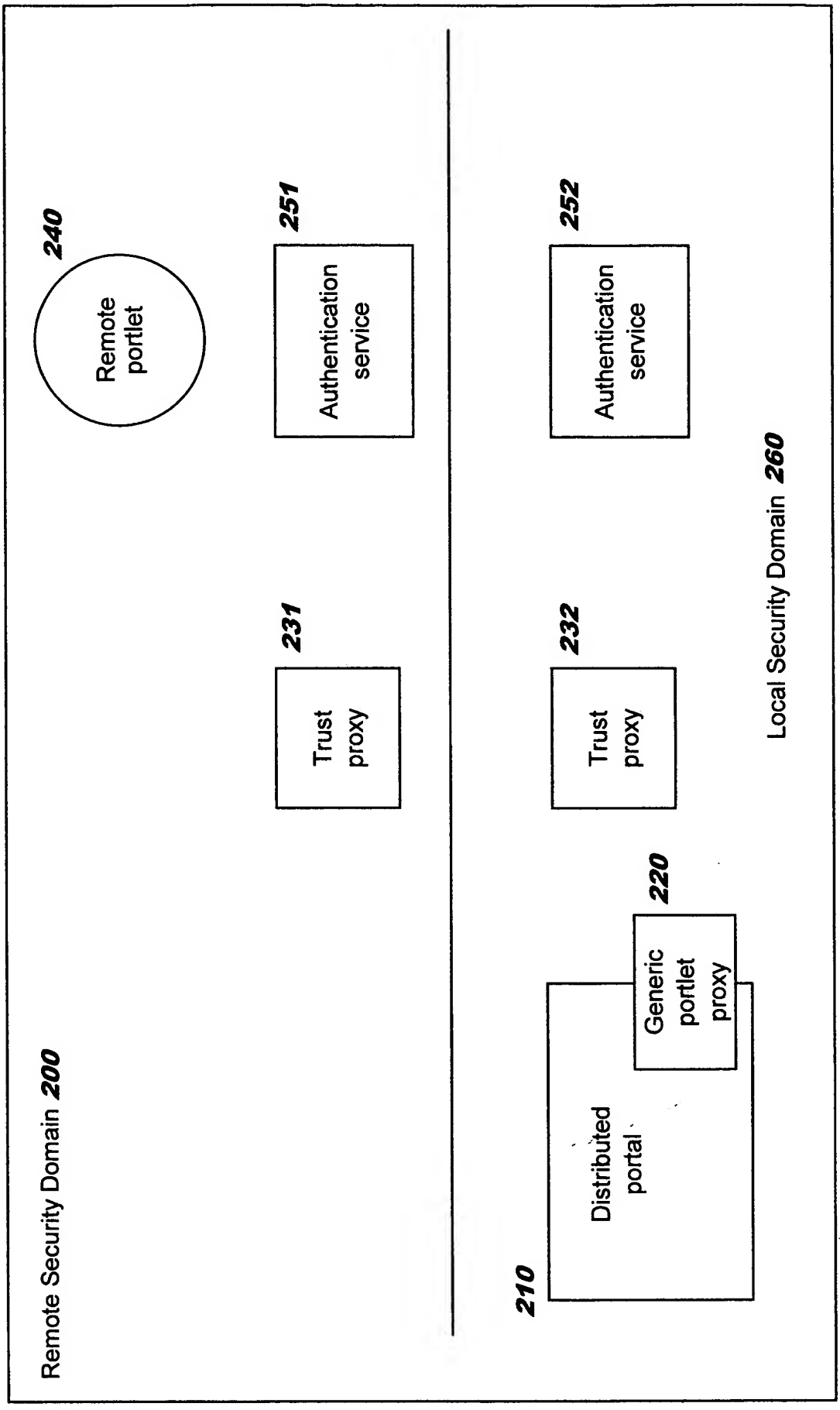
Remote Security Domain 200
240
Remote portlet
251
Authentication service
231
Trust proxy
232
Trust proxy
252
Authentication service
Local Security Domain 260
220
Generic portlet proxy
210
Distributed portal

FIG. 3

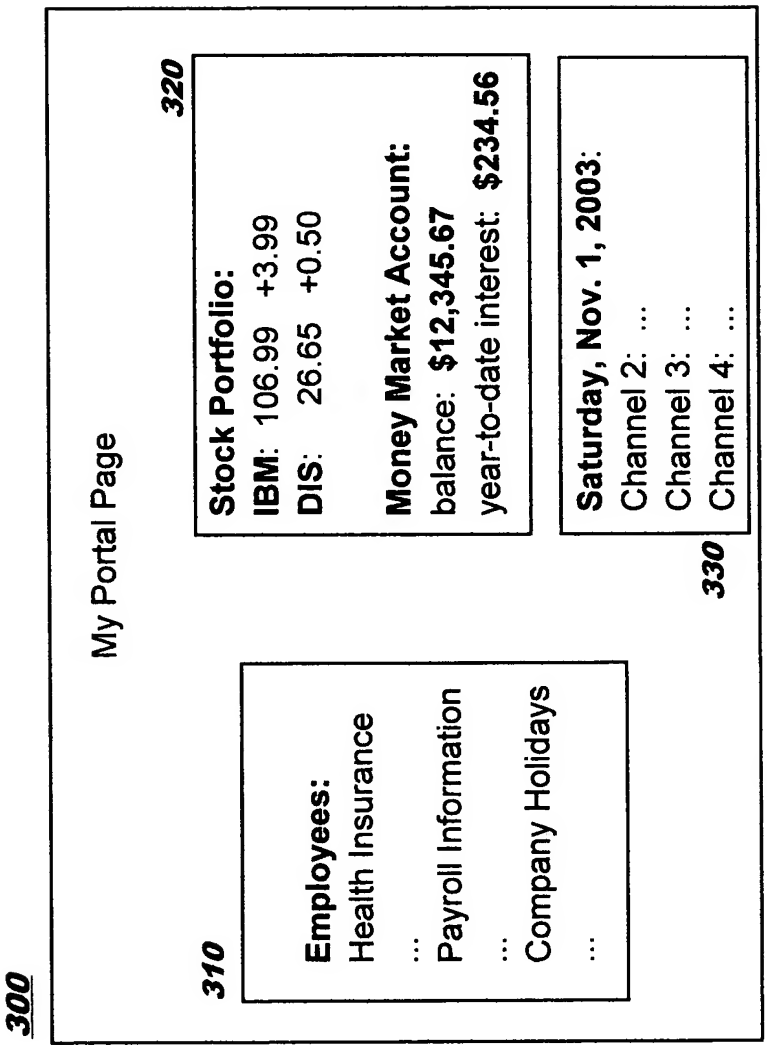
300
My Portal Page
310
Employees:
Health Insurance
...
Payroll Information
...
Company Holidays
...
320
Stock Portfolio:
IBM: 106.99 +3.99
DIS: 26.65 +0.50
Money Market Account:
balance: $12,345.67
year-to-date interest: $234.56
330
Saturday, Nov. 1, 2003:
Channel 2: ...
Channel 3: ...
Channel 4: ...

FIG. 4

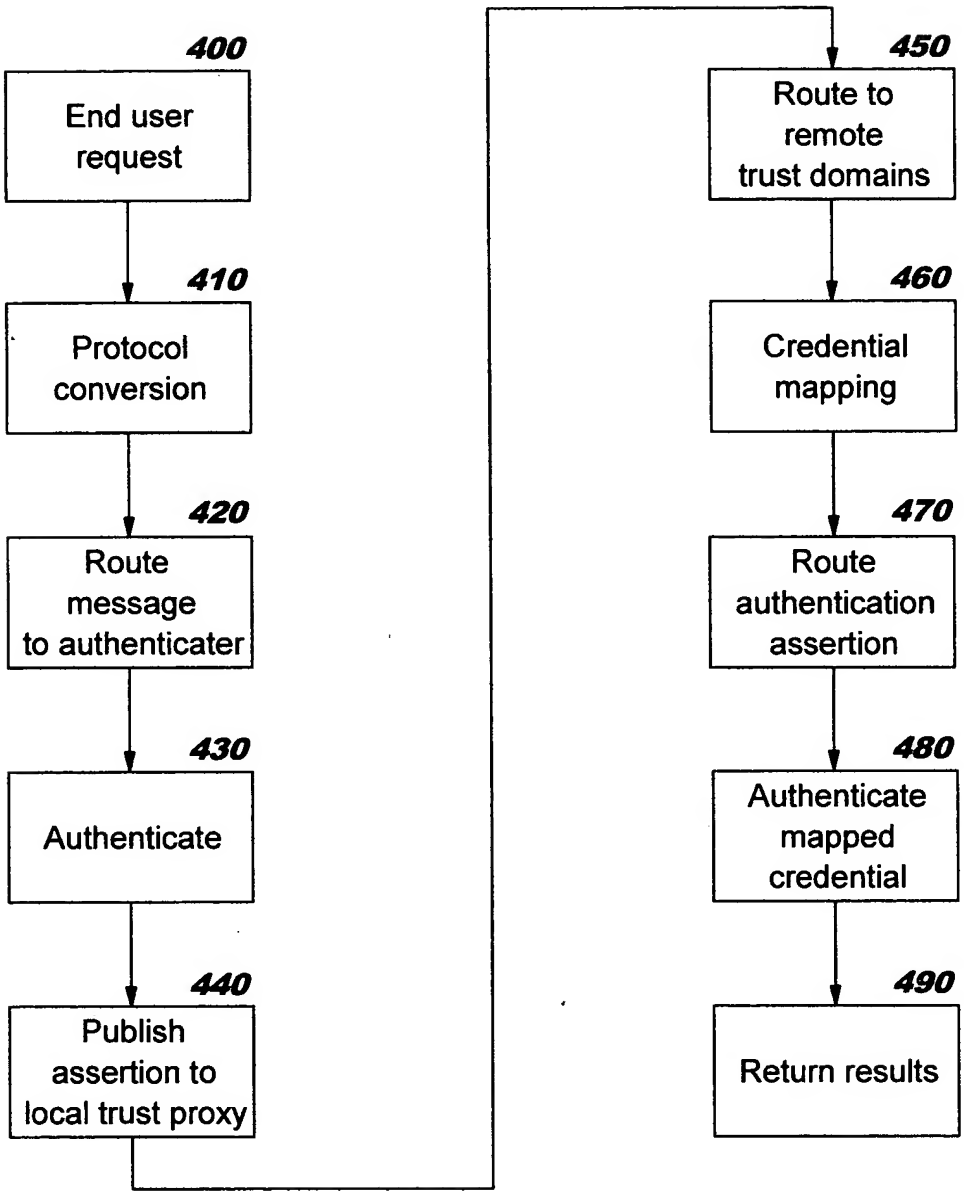
400
End user request
410
Protocol conversion
420
Route message to authenticater
430
Authenticate
440
Publish assertion to local trust proxy
450
Route to remote trust domains
460
Credential mapping
470
Route authentication assertion
480
Authenticate mapped credential
490
Return results

FIG. 5

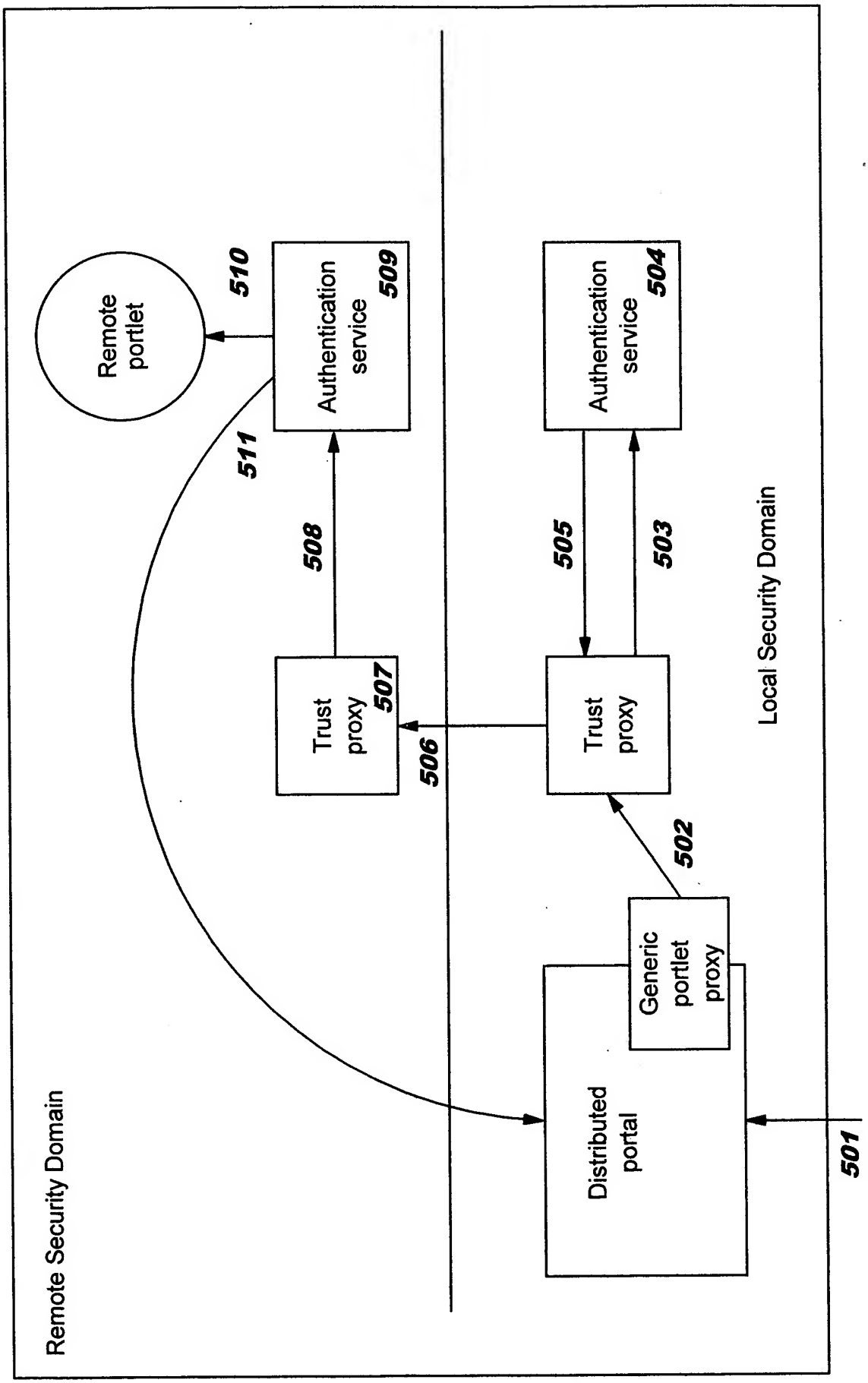
Remote Security Domain
Local Security Domain
Remote portlet
510
Authentication service
509
Authentication service
504
511
508
505
503
Trust proxy
507
Trust proxy
506
502
Generic portlet proxy
Distributed portal
501

FIG. 6A

600

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
 SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<SOAP-ENV:Header>
<wsse:Security xmlns:wsse="http://schemas.xmlsoap.org/ws/2002/04/secext">
<Signature xmlns="http://www.w3.org/2000/09/xmldsig#">
 <SignedInfo>
  <CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
  <SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#dsa-sha1"/>

  <Reference URI="#soap_content_1018917500125">
   <Transforms>
    <Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
   </Transforms>
   <DigestMethod Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"/>
   <DigestValue>ZOA9kwsm9CFZrx6qPzbKn5kVye0=</DigestValue>
  </Reference>

  <Reference URI="#Id_1018917500115">
   <Transforms>
    <Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
   </Transforms>
   <DigestMethod Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"/>
   <DigestValue>nAuak7tKR7P685N8+gmujE82ggk=</DigestValue>
  </Reference>
 </SignedInfo>

 <SignatureValue>
  RnlaILXdxZ3MrEfQLRsCW3y3y60lvmd+rSvqfe+m1JMZNX6Z+3yOvQ==
 </SignatureValue>

 <KeyInfo>
  <KeyName>cedar-trail-wps1</KeyName>620
 </KeyInfo>
</Signature>
```

610

FIG. 6B

```
<wsse:UsernameToken Id="Id_1018917500115">
 <wsse:Username>sally@cedar.net</wsse:Username>631
 <wsse:Password>federate</wsse:Password>632
</wsse:UsernameToken>

</wsse:Security>

</SOAP-ENV:Header>

<SOAP-ENV:Body>
 <ns1:publish id="soap_content_1018917500125"
              xmlns:ns1="http://tempuri.org/trustProxy1">
  <arg0 xsi:type="xsd:string">MultiDomainAuth/Request/domain1</arg0> 641
  <arg1 xsi:type="xsd:string"/>
 </ns1:publish>
</SOAP-ENV:Body>

</SOAP-ENV:Envelope>
```

630

640

FIG. 7A

700

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
 SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

 <SOAP-ENV:Header>
 <wsse:Security xmlns:wsse="http://schemas.xmlsoap.org/ws/2002/04/secext">
  <Signature xmlns="http://www.w3.org/2000/09/xmldsig#">
  <SignedInfo>
   <CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
   <SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#dsa-sha1"/>

   <Reference URI="#soap_content_1018917562665">
    <Transforms>
     <Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
    </Transforms>
    <DigestMethod Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"/>
    <DigestValue>TF4tZ+y30wfJxu+YW8OhPMzuKCU=</DigestValue>
   </Reference>

   <Reference URI="#Id_1018917562655">
    <Transforms>
     <Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
    </Transforms>
    <DigestMethod Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"/>
    <DigestValue>epb5eOjbyj1Ail3e9EE2CcY1ye4=</DigestValue>
   </Reference>
  </SignedInfo>

  <SignatureValue>
   Tp/d6OG2Oay4UBFgi/Q+7I6o4O+J/YIpWH4ewYgE3wSPdapmV5nyIQ==
  </SignatureValue>

  <KeyInfo>
   <KeyName>securityGateway2A</KeyName> 720
  </KeyInfo>
 </Signature>
```

FIG. 7B

```
<wsse:UsernameToken Id="Id_1018917562655">
730  <wsse:Username>spjenkins@sfs.com</wsse:Username>731
  <wsse:Password>investments-R-Us</wsse:Password> 732
</wsse:UsernameToken>

</wsse:Security>

</SOAP-ENV:Header>

<SOAP-ENV:Body>
 <ns1:publish id="soap_content_1018917562665"
              xmlns:ns1="http://tempuri.org/trustProxy2">
740  <arg0 xsi:type="xsd:string">MultiDomainAuth/Response/domain2A</arg0>741
  <arg1 xsi:type="xsd:string">Permit</arg1>742
 </ns1:publish>
</SOAP-ENV:Body>

</SOAP-ENV:Envelope>
```